

HEAT-ABSORBING GEL MATERIAL

ABSTRACT OF THE DISCLOSURE

A gel is produced by magnetically treating and mixing two solutions and in one embodiment subsequently introducing carbon dioxide gas. The first solution is comprised of water and sodium bicarbonate, and the second solution is comprised of water and sodium silicate. The first solution is passed through a positively charged magnetic field, and the second solution is passed through a negatively charged magnetic field. The two solutions are then mixed together to form a gel. The resulting gel has excellent fire-fighting capabilities because of its high heat absorption and emissive qualities. The gel can also be used to aid in the removal of surface coatings.